



1

SEQUENCE LISTING

<110> YAROVINSKY, TIMUR

<120> TOPOISOMERASE ACTIVATED OLIGONUCLEOTIDE ADAPTORS AND
USES THEREFOR

<130> UIA-031.01

<140> 09/871,607

<141> 2001-05-31

<150> 60/208,662

<151> 2000-05-31

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

taatacgact cactataggg acccttggtg cacca

35

<210> 2

<211> 11

<212> DNA

<213> Artificial Sequence

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oligonucleotide

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11

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 3

gaagcacatg tcttaatgt c

21

PDB ID: 2Q9T2860

2

<210> 4
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 4
gaactaacat taatacacat cac

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<212> DNA
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<223> Description of Artificial Sequence: Primer

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gtaccacctc accagtgtct

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<223> Description of Artificial Sequence: Primer

<400> 6
aaatgatggc cagagacca

19

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<212> DNA
<213> Vaccinia virus

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acagatgttag tagtatatga acaaacctgg gaggaggcgtaaacttagatt aatttttgtg 180
ggaagtgttcaaaaggacg tagacaatac tttaacggaa aaatgcgtt acagaatcc 240
aacgctaaaa gagatcgat ttttggtaga gtatataacg ttatggaaacg aattaattgt 300
tttataaaca aaaatataaa gaaatcgcc acagattcca attatcgat ggcgggtttt 360
atgttaatgg aaactatgtt ttttattaga ttggtaaaa tgaatatct taaggagaat 420
gaaacagtag gggttattaaactaaaaat aaacacatag aaataagtcc cgatgaaata 480
gttatcaagt ttgttaggaaa ggacaaagtt tcacatgaat ttgtgttca taagtcta 540
agactatata agccgctatt gaaactgacg gatgattcta gtcccgaaaga atttctgttc 600
aacaactaa gtgaacgaaa ggttatatgaa tttatcaac agtttggtat tagaatcaag 660
gatctccgaa cgtatggagt caattatacg ttatataattttggac aaatgtaaag 720
tccatatctc ctcttccatc accaaaaaaatgtaatagcgt taactatcaa acaaactgct 780
gaagtggtag gtcatactcc atcaatttca aaaagagctt atatggcaac gactattta 840
gaaatggtaa aggataaaaa ttatgtatcta aaactacgtt cgatgaaattc 900

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ctatctatacg tcgttagatca cgtaaatca tctacggatg gatga

945

<210> 8

<211> 314

<212> PRT

<213> Vaccinia virus

<400> 8

Met Arg Ala Leu Phe Tyr Lys Asp Gly Lys Leu Phe Thr Asp Asn Asn
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Phe Leu Asn Pro Val Ser Asp Asp Asn Pro Ala Tyr Glu Val Leu Gln
20 25 30

His Val Lys Ile Pro Thr His Leu Thr Asp Val Val Val Tyr Glu Gln
35 40 45

Thr Trp Glu Glu Ala Leu Thr Arg Leu Ile Phe Val Gly Ser Asp Ser
50 55 60

Lys Gly Arg Arg Gln Tyr Phe Tyr Gly Lys Met His Val Gln Asn Arg
65 70 75 80

Asn Ala Lys Arg Asp Arg Ile Phe Val Arg Val Tyr Asn Val Met Lys
85 90 95

Arg Ile Asn Cys Phe Ile Asn Lys Asn Ile Lys Lys Ser Ser Thr Asp
100 105 110

Ser Asn Tyr Gln Leu Ala Val Phe Met Leu Met Glu Thr Met Phe Phe
115 120 125

Ile Arg Phe Gly Lys Met Lys Tyr Leu Lys Glu Asn Glu Thr Val Gly
130 135 140

Leu Leu Thr Leu Lys Asn Lys His Ile Glu Ile Ser Pro Asp Glu Ile
145 150 155 160

Val Ile Lys Phe Val Gly Lys Asp Lys Val Ser His Glu Phe Val Val
165 170 175

His Lys Ser Asn Arg Leu Tyr Lys Pro Leu Leu Lys Leu Thr Asp Asp
180 185 190

Ser Ser Pro Glu Glu Phe Leu Phe Asn Lys Leu Ser Glu Arg Lys Val
195 200 205

Tyr Glu Cys Ile Lys Gln Phe Gly Ile Arg Ile Lys Asp Leu Arg Thr
210 215 220

Tyr Gly Val Asn Tyr Thr Phe Leu Tyr Asn Phe Trp Thr Asn Val Lys
225 230 235 240

Ser Ile Ser Pro Leu Pro Ser Pro Lys Lys Leu Ile Ala Leu Thr Ile
245 250 255

Lys Gln Thr Ala Glu Val Val Gly His Thr Pro Ser Ile Ser Lys Arg
260 265 270

Ala Tyr Met Ala Thr Thr Ile Leu Glu Met Val Lys Asp Lys Asn Phe
275 280 285

Leu Asp Val Val Ser Lys Thr Thr Phe Asp Glu Phe Leu Ser Ile Val
290 295 300

Val Asp His Val Lys Ser Ser Thr Asp Gly
305 310

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: T7 phage
promoter

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<210> 10

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: T3 phage
promoter

<400> 10

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<210> 11

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: SP6 phage
promoter

<400> 11

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<210> 12

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 12

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